**SDLC notes**

What is Software?

Software is a collection of instructions, data, or computer programmes that are used to run machines and carry out particular activities

What is SDLC ?

SDLC stands for software Development Life Cycle. It outlines the numerous steps needed in creating software to produce a high-quality end product.

Need of SDLC

The creation of a software product would not be systematic and disciplined without the use of a precise life cycle model.

Development Steps

Planning and Requirements Analysis

Specifying the Needs

Creating/Designing the software

Project Development

Testing

Deployment

Maintenance

1.Planning and Requirements Analysis

The Level of the SDLC that is most crucial and essential is requirement analysis with input from all the stakeholders, domain experts, and SMEs in the industry, the senior team members carry it out.

2.Specifying the Needs

The process of representing , documents, and getting the project stakeholders to approve the software requirements follows the completion of the requirement analysis.

3.Creating/Designing the software

The knowledge of the software project’s needs, analysis, and design will all be revealed in the upcoming phase.

4.Project Development

The actual development phase of the SDLC starts here, and programming is created.

5.Testing

The code is compared to the requirements to ensure that the solutions are satisfying the demands.

6.Deployment

When the software has been certified and no defects or mistakes have been reported, it is put into use.

7.Maintenance

When the customer begins utilising the technologies that have been designed, true problems and ongoing needs become apparent.